SIEMENS

Data sheet

3RB3036-2UD0



OVERLOAD RELAY 12.5...50 A FOR MOTOR PROTECTION SIZE S2, CLASS 20E FOR MOUNTING ONTO CONTACTORS MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SPRING-T. TERM. MANUAL-AUTOMATIC-RESET

Figure	similar

product brand name

Product designation		solid-state overload relay	
General technical data:			
Active power loss total typical	W	1.8	
Insulation voltage	-		
 with degree of pollution 3 Rated value 	V	690	
Shock resistance			
• acc. to IEC 60068-2-27		15g / 11 ms	
Vibration resistance		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles	
Surge voltage resistance Rated value	kV	6	
Temperature compensation	°C	6025	
Recovery time			
 after overload trip with automatic reset typical 	min	3	
 after overload trip with remote-reset 	min	0	
 after overload trip with manual reset 	min	0	
Size of contactor can be combined company-specific		S2	
Type of assignment	-	2	
Protection class IP	-		
• on the front		IP20	
• of the terminal		IP00	
Type of protection		II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]	
Equipment marking			
• acc. to DIN EN 81346-2		F	
Main circuit:			
Number of poles for main current circuit		3	

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Adjustable response value surrent of the surrent	A	12.5 50
Adjustable response value current of the current- dependent overload release	A	12.5 50
Operating voltage		
Rated value	V	690
 at AC-3 Rated value maximum 	V	690
Operating frequency Rated value	Hz	50 60
Operating current		
● at AC-3		
— at 400 V Rated value	А	50
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		1
— Note		for contactor disconnection
Number of NO contacts		
 for auxiliary contacts 		1
— Note		for message "tripped"
Number of CO contacts		
 for auxiliary contacts 		0
Design of the auxiliary switch		integrated
Operating current of the auxiliary contacts at AC-15		
• at 24 V	А	4
● at 110 V	А	4
• at 120 V	А	4
• at 125 V	А	4
• at 230 V	А	3
Operating current of the auxiliary contacts at DC-13	_	
• at 24 V	А	2
• at 60 V	А	0.55
• at 110 V	А	0.3
● at 125 V	А	0.3
● at 220 V	А	0.11
Protective and monitoring functions:		
Trip class		CLASS 20E
Design of the overload circuit breaker		electronic
Response time of the ground fault protection in settled state	ms	1 000
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	А	50
• at 600 V Rated value	А	50
Contact rating of the auxiliary contacts acc. to UL		B600 / R300

Short-circuit: Design of the fuse link			
 for short-circuit protection of the main circuit required 		Fuse gG: 200 A	
lequileu			
nstallation/ mounting/ dimensions:			
mounting position		any	
Mounting type		direct mounting	
Height Width		99 55	
Required spacing			
 with side-by-side mounting 			
— forwards	mm	0 0 0	
— Backwards	mm		
— upwards	mm		
— downwards	mm	10	
— at the side		0	
 for grounded parts 			
— forwards	mm	10	
— Backwards	mm	0	
— upwards		10	
— at the side	mm	10	
— downwards	mm	10	
• for live parts			
— forwards	mm	10	
— Backwards	mm	0	
— upwards	mm	10	
— downwards	mm	10	
— at the side	mm	10	
— at the side		10	
Connections/ Terminals:			
Type of electrical connection			
• for main current circuit		screw-type terminals	
 for auxiliary and control current circuit 		spring-loaded terminals	
Arrangement of electrical connectors for main current circuit		Top and bottom	
Product function			
 removable terminal for auxiliary and control circuit 		Yes	

 for main contacts single or multi-stranded finely stranded with core end processing for AWG conductors for main contacts for auxiliary contacts single or multi-stranded 1x (1 50 mm²), 2x (1 35 mm²) 2x (1 25 mm²) 2x (18 2), 1x (18 1) for auxiliary contacts single or multi-stranded 1x (0,25 1,5 mm²), 2x (0,25 1,5 mm²) 	
 finely stranded with core end processing for AWG conductors for main contacts for auxiliary contacts 	
 for AWG conductors for main contacts for auxiliary contacts 2x (18 2), 1x (18 1) 	
• for auxiliary contacts	
— single or multi-stranded 1X (0.25 1.5 MM ²), 2X (0.25 1.5 MM ²)	
- finely stranded with core end processing $1x (0.25 \dots 1.5 \text{ mm}^2), 2x (0.25 \dots 1.5 \text{ mm}^2)$	
 finely stranded without core end processing 1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²) 	
• for AWG conductors for auxiliary contacts 1x (24 16), 2x (24 16)	
Tightening torque	
• for main contacts with screw-type terminals N·m 3 4.5	
Design of screwdriver shaft Diameter 5 to 6 mm	
Design of the thread of the connection screw	
• for main contacts M6	
Safety related data:	
Proportion of dangerous failures	
• with low demand rate acc. to SN 31920 % 35	
Protection against electrical shock finger-safe when touched vertically from from from from from from from from	ont acc. to
Mechanical data:	
Size of overload relay S2	
Communication/ Protocol:	
Protocol is supported	
IO-Link protocol No	
Type of voltage supply via input/output link master No	
Ambient conditions:	
Installation altitude at height above sea level m 2 000	
maximum	
Ambient temperature	
Ambient temperature °C -25 +60	
Ambient temperature°C-25 +60• during operation°C-40 +80	
Ambient temperature·• during operation°C• during storage°C• during transport°C• C-40 +80	
Ambient temperature°C-25 +60• during operation°C-40 +80	
Ambient temperature°C-25 +60• during operation°C-25 +80• during storage°C-40 +80• during transport°C-40 +80Relative humidity during operation%0 95Electromagnetic compatibility:	
Ambient temperature°C-25 +60• during operation°C-40 +80• during storage°C-40 +80• during transport°C-40 +80Relative humidity during operation%0 95Electromagnetic compatibility:EMC emitted interference	
Ambient temperature°C-25 +60• during operation°C-25 +60• during storage°C-40 +80• during transport°C-40 +80Relative humidity during operation%0 95Electromagnetic compatibility:EMC emitted interferenceCISPR 11, environment B (residential area)
Ambient temperature°C-25 +60• during operation°C-40 +80• during storage°C-40 +80• during transport°C-40 +80Relative humidity during operation%0 95Electromagnetic compatibility:EMC emitted interference)

Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	2 kV (line to ground)
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (line to line)
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge

Display:

Display version

• for switching status

Slide switch

Certificates/ approvals:						
	General Product Approval		For use in hazardous locations	Test Certificates	other	
	(SA)	EHC	K ATEX	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB30362UD0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB30362UD0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB30362UD0&lang=en





